



Electronic Information Disclosure Statement

Modular assembly of antibody genes, antibodies prepared thereby and use

Application:



10/040945

Confirmation: 5282

Applicant(s): Randy Robinson

Docket

Number:

0610.0050001

Group Art

Unit:

Examiner:

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search string: (4338397 or 4642334 or 4656134 or 4816397 or 4816567 or 4935496 or 4963495 or 5576195 or 5595898 or 5618920 or 5648237 or 5693493 or 5698417 or 5698435 or 5846818 or 6204023 or 6331415).pn.


US Patent Documents

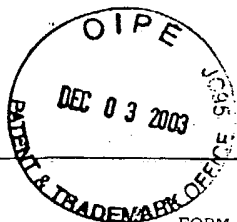
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
DB	P01	4338397	1982-07-06		Gilbert et al.	435	68
I	P02	4642334	1987-02-10		Moore et al.	530	388
I	P03	4656134	1987-04-07		Ringold	435	91
I	P04	4816397	1989-03-28		Boss et al.	435	68
I	P05	4816567	1989-03-28		Cabilly et al.	530	387
I	P06	4935496	1990-06-19		Kudo et al.	530	388
DB	P07	4963495	1990-10-16		Chang et al.	435	320

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<input type="checkbox"/>	P09	5595898	1997-01-21	<input type="checkbox"/>	Robinson et al.	435	172.3
<input type="checkbox"/>	P10	5618920	1997-04-08	<input type="checkbox"/>	Robinson et al.	530	387.1
<input type="checkbox"/>	P11	5648237	1997-07-15	<input type="checkbox"/>	Carter	435	69.1
<input type="checkbox"/>	P12	5693493	1997-12-02	<input type="checkbox"/>	Robinson et al.	435	69.1
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<input checked="" type="checkbox"/>	P17	6331415	2001-12-18	<input checked="" type="checkbox"/>	Cabilly et al.	435	69.6

Signature

Examiner Name	Date
	11/15/04

FORM PTO-1449
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1642

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
DB	AL1	EP 0 048 970 A2	04/07/1982	Europe			Yes No
	AM1	EP 0 055 942 B1	07/14/1982	Europe			Yes No
	AN1	EP 0 088 994 B1	09/21/1983	Europe			Yes No
	AO1	WO 83/03971	11/24/1983	WIPO			Yes No
DB	AP1	EP 0 102 634 A1	03/14/1984	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	1	Abrahmsén, L. et al., "Secretion of heterologous gene products to the culture medium of Escherichia coli," Nucl. Acids Res. 14(18):7487-7500, Oxford University Press, Oxford, England (August 1986).
DB	AS	1	Alexander, A. et al., "γ heavy chain disease in man: cDNA sequence supports partial gene deletion model," Proc. Natl. Acad. Sci. USA 79:3260-3264, National Academy of Science of the USA, Washington, D.C. (1982).
DB	AT	1	Amster, O. et al., "Synthesis of part of a mouse immunoglobulin in light chain in a bacterial clone," Nucl. Acids Res. 8:2055-2065, Oxford University Press, Oxford, England (1980).

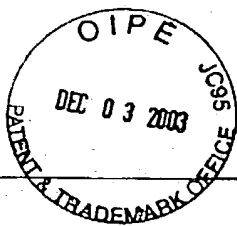
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Paul B. Bunt

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
DB	AL2	EP 0 120 694 A2	10/03/1984	Europe			Yes No
	AM2	GB 2 137 631 A	10/10/1984	Great Britain			Yes No
	AN2	EP 0 125 023 A1	11/14/1984	Europe			Yes No
	AO2	EP 0 126 338 A1	11/28/1984	Europe			Yes No
DB	AP2	EP 0 133 321 A1	02/20/1985	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	2	Anand, N.N. et al., "Synthesis and expression in <i>Escherichia coli</i> of cistronic DNA encoding an antibody fragment specific for <i>Salmonella</i> serotype B-O-antigen," Gene 100:39-44, Elsevier Science Publishers B.V., Amsterdam, Netherlands (June 1991).
	AS	2	Anand, N.N. et al., "Bacterial Expression and Secretion of Various Single-chain Fv Genes Encoding Proteins Specific for a <i>Salmonella</i> Serotype B O-Antigen," J. Biol. Chem. 266(32):21874-21879, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (November 1991).
	AT	2	Axelsson, K., "Bacterial Lipopolysaccharides and Glutathione Mixed Disulfides as Possible Contaminants of Human Growth Hormone Produced with the Use of <i>E. coli</i> k12," Acta Chemica Scandinavica Series B 39:69-71, Munksgaard International Publishers, Copenhagen, Denmark (1985), Communication at the Meeting of the Swedish Biochemical Society in Stockholm Sweden, August 42-25th, 1984.

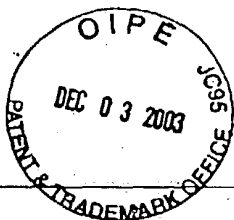
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David Blumenthal

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DB	AL3	JP 60-155132	08/15/1985	Japan			Yes X No
	AM3	EP 0 154 539 A2	09/11/1985	Europe			Yes No
	AN3	JP 61-47500	03/07/1986	Japan			Yes X No
	AO3	EP 0 171 496 A3	02/19/1986	Europe			Yes No
DB	AP3	EP 0 173 494 A3	03/05/1986	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	3	Banerji, J. et al., "A Lymphocyte-Specific Cellular Enhancer Is Located Downstream of the Joining Region in Immunoglobulin Heavy Chain Genes," Cell 33:729-740, Cell Press, Cambridge, MA (1983).
	AS	3	Barbas III, C.F. et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," Proc. Natl. Acad. Sci. USA 88(18):7978-7982, National Academy of Sciences of the USA, Washington, D.C. (September 1991).
SB	AT	3	Bebbington, C.R. et al., "High-Level Expression of A Recombinant Antibody From Myeloma Cells Using A Glutamine Synthetase Gene As An Amplifiable Selectable Marker," Bio/Technol. 10:169-175, Nature Publishing Co., New York (February 1992).

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Paul Bluhm

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DB	AL4	WO 86/01533	03/13/1986	WIPO			Yes No
	AM4	EP 0 184 187 A2	06/11/1986	Europe			Yes No
	AN4	EP 0 194 276 B1	09/17/1986	Europe			Yes No
	AO4	WO 86/05513	09/25/1986	WIPO			Yes No
DB	AP4	WO 86/05812	10/09/1986	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	4	Beckwith, J. and S.Ferro-Novick, "Genetic Studies on Protein Export in Bacteria," <i>Curr. Topics Microbiol. Immunol.</i> 125:5-27, Springer Verlag, Berlin, Germany (July 1986).
	AS	4	Beggs, J.D., "Multiple-copy Yeast Plasmid Vectors," <i>Mol. Genet. Yeast Benzon Symp.</i> 16:383-389, Munksgaard, Copenhagen, Denmark (1981).
DB	AT	4	Bernstein, K.E., et al., "Nucleotide Sequence of a Rabbit IgG Heavy Chain from the Recombinant F-I Haplotype," <i>Immunogenet.</i> 18(4):387-397, Springer-Verlag, Berlin, Germany (1983).

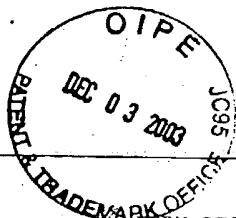
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Samuel Blumenthal

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DB	AL5	WO 87/02671	05/07/1987	WIPO			Yes No
	AM5	EP 0 234 592 A1	09/02/1987	Europe			Yes No
	AN5	JP 62-502586	10/08/1987	Japan			Yes X No
	AO5	JP 63-68087	03/26/1988	Japan			Yes X No
DB	AP5	EP 0 266 663	05/11/1988	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	5	Better, M. et al., "Escherichia coli Secretion of an Active Chimeric Antibody Fragment," Science 240:1041-1043, American Association for the Advancement of Science, Washington, D.C. (May 1988).
	AS	5	Better, M. and A.H. Horwitz, "Expression of Engineered Antibodies and Antibody Fragments in Microorganisms," Meth. Enzymol. 178:476-496, Academic Press Inc., New York, NY (November 1989).
	AT	5	Better, M. et al., "Production And Scale Up of Chimeric Fab Fragments From Bacteria," Advances in Gene Technology: The Molecular Biology of Immune Diseases and the Immune Response, Proc. Of the 1990 Miami Bio/Technol. Winter Symp. 10:105. IRL Press. New York (July 1990).

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DB	AL6	EP 0 278 355 A2	08/17/1988	Europe			Yes No
	AM6	WO 89/00999	02/09/1989	WIPO			Yes No
	AN6	WO 89/06283	07/13/1989	WIPO			Yes No
	AO6	EP 0 324 162 B1	07/19/1989	Europe			Yes X No
DB	AP6	WO 92/22324	12/23/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	6	Better, M. et al., "Potent anti-CD5 ricin A chain immunoconjugates from bacterially produced Fab' and F(ab') ₂ ," <i>Proc. Natl. Acad. Sci. USA</i> 90:457-461, National Academy of Sciences of the USA, Washington, D.C. (January 1993).
	AS	6	Better, M. and A.H. Horwitz, "In Vivo Expression of Correctly Folded Antibody Fragments from Microorganisms," Ch. 16, in: <i>Protein Folding - In Vivo and In Vitro</i> , Cleland, J.L., ed., Washington, D.C., American Chemical Society pp. 203-217 (April 1993).
DB	AT	6	Boss, M.A. et al., "Assembly of functional antibodies from immunoglobulin heavy and light chains synthesised in <i>E. coli</i> ," <i>Nucl. Acids Res.</i> 12(9):3791-3806, Oxford University Press, Oxford, England (May 1984).

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Paul Blumenthal

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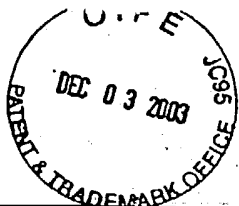
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DB	AM7	WO 93/15210	08/05/1993	WIPO			Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	2	Boulianne, G.L. et al., "Production of functional chimeric mouse/human antibody," Nature 312:643-646, Macmillan Publishers Ltd., London, England (December 1984).
↓	AS	2	Briggs, M.S. and L.M. Gierasch, "Molecular Mechanisms of Protein Secretion: The Role of the Signal Sequence," Adv. Prot. Chem. 38:109-180, Academic Press, Inc., San Diego, CA (January 1986).
DB	AT	2	Brown, N.A. et al., "Immunoglobulin J _H , C _H , and C _γ gene rearrangements in human B lymphocytes clonally transformed by Epstein-Barr virus," Proc. Natl. Acad. Sci. USA 82:556-560, National Academy of Sciences of the USA, Washington, D.C. (January 1985).

EXAMINER <i>Tamara Blumenthal</i>	DATE CONSIDERED 11/15/04
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DB	AR	8	Cabilly, S. et al., "Generation of antibody activity from immunoglobulin polypeptide chains produced in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 81:3273-3277, National Academy of Sciences of the USA, Washington, D.C. (June 1984).
↓	AS	8	Calos, M.P. et al., "High mutation frequency in DNA transfected into mammalian cells," <i>Proc. Natl. Acad. Sci. USA</i> 80:3015-3019, National Academy of Sciences of the USA, Washington, D.C. (May 1983).
↓ DB	AT	8	Carter, P. et al., "High level <i>Escherichia coli</i> Expression and Production of a Bivalent Humanized Antibody Fragment," <i>Bio/Technol.</i> 10:163-167, Nature Publishing Co., New York (February 1992).

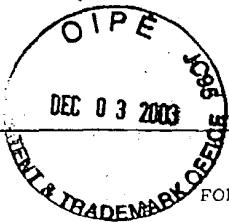
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Samuel Blitnick

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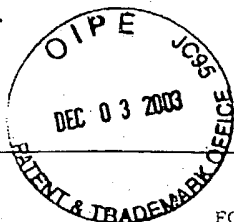
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DB	AR	2	Chan, S.J. et al., "Biosynthesis and periplasmic segregation of human proinsulin in Escherichia coli," Proc. Natl. Acad. Sci. USA 78(9):5401-5405, National Academy of Sciences of the USA, Washington, D.C. (1981).
↓	AS	2	Clackson, T. et al., "Making antibody fragments using phage display libraries," Nature 352:624-628, Macmillan Publishers Ltd., London, England (August 1991).
↓ DB	AT	2	Clontech Catalog, "Bacterial Strains" and "Numerical Index," pp. 224 and 277, respectively; Clontech Laboratories, Inc., Palo Alto, CA (July 1993).

EXAMINER <i>Samuel Blumenthal</i>	DATE CONSIDERED 11/5/04
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	10	Denéfle, P. et al., "Heterologous protein export in <i>Escherichia coli</i> : influence of bacterial signal peptides on the export of human interleukin 1 β ," <i>Gene</i> 85:499-510, Elsevier Science Publishers B.V., Amsterdam, Netherlands (December 1989).
↓	AS	10	De Sutter, K. et al., "Production of functionally active murine and murine: human chimeric F(ab') ₂ fragments on COS-1 cells," <i>Gene</i> 113:223-230, Elsevier Science Publishers B.V., Amsterdam, Netherlands (April 1992).
DB	AT	10	Dickson, S., "Scientist Produce Chimeric Monoclonal Abs," <i>Genetic Engineering News</i> 5(3):1 and 33. Mary Ann Leibert, Inc., Publishers, Larchmont, NY (March 1985).

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Paul Phul

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DB	AR	11	Dolby, T.W. et al., "Cloning and partial nucleotide sequence of human immunoglobulin μ chain cDNA from B cells and mouse-human hybridomas," <i>Proc. Natl. Acad. Sci. USA</i> 77(10):6027-6031, National Academy of Sciences of the USA, Washington, D.C. (1980).
I	AS	11	Early, P and L. Hood, "Mouse Immunoglobulin Genes," in: <i>Genetic Engineering - Principles and Methods</i> , Volume 3, Setlow, J.K. and A. Hollander, eds., New York: Plenum Press pp.157-188 (1981).
DB	AT	11	Edelman, G.M. et al., "The Covalent Structure of an Entire γ G Immunoglobulin Molecule," <i>Proc. Natl. Acad. Sci. USA</i> 63(1):78-85, National Academy of Sciences of the USA, Washington, D.C. (1969).

EXAMINER <i>Samuel Blumenthal</i>	DATE CONSIDERED 11/15/04
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FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0610.005000IAPPLICATION NO.
10/040,945APPLICANT
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1642

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	12	Edens, L. et al., "Cloning of cDNA encoding the sweet-tasting plant protein thaumatin and its expression in Escherichia coli," <i>Gene</i> 18:1-12, Elsevier Science Publishers B.V., Amsterdam, Netherlands (1982).
↓	AS	12	Ellison, J. and L. Hood, "Linkage and sequence homology of two human immunoglobulin γ heavy chain constant region genes," <i>Proc. Natl. Acad. Sci. USA</i> 79:1984-1988, National Academy of Sciences of the USA, Washington, D.C. (1982).
↓ DB	AT	12	Ellison, J.W. et al., "The nucleotide sequence of a human immunoglobulin C γ gene" <i>Nucl. Acids Res.</i> 10(13):4071-4079, Oxford University Press, Oxford, England (1982).

EXAMINER

David Bluhm

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	13	Ferenc, T. and T.J. Silhavy, "Sequence Information Required for Protein Translocation from the Cytoplasm," J. Bacteriol. 169(12):5339-5342, American Society for Microbiology, Baltimore, MD (December 1987).
↓	AS	13	Flamez, D. et al., "Production in Escherichia coli of a functional murine and murein: human chimeric F(ab'), fragment and mature antibody directed against human placental alkaline phosphatase," J. Biotechnol. 42:133-143, Elsevier Science Publishers, Amsterdam, Netherlands (September 1995).
↓ DB	AT	13	Fraser, T.H. and B.J. Bruce, "Chicken ovalbumin is synthesized and secreted by Escherichia coli," Proc. Natl. Acad. Sci. USA 75(12):5936-5940, National Academy of Sciences of the USA, Washington, D.C. (1978).

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David B. Huf

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	AO						Yes No
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DB	AR	14	Ghera, R. et al., eds., American Type Culture Collection - Catalogue of Bacteria and Phages, Seventeenth edition, p. 97, American Type Culture Collection, Rockville, MD (February 1989).
↓	AS	14	Ghrayeb, J., et al., "Secretion Cloning Vectors in Escherichia coli," EMBO J. 3:2437-2442, IRL Press Limited, Oxford, England (October 1984).
DB	AT	14	Gillam, S. and M. Smith, "Site-Specific Mutagenesis Using Synthetic Oligodeoxyribonucleotide Primers: I. Optimum Conditions And Minimum Oligodeoxyribonucleotide Length," Gene 8:81-97, Elsevier Science Publishers B.V., Amsterdam, Netherlands (1979).

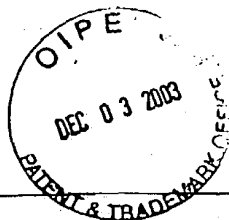
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	15	Gillies, S.D. et al., "A Tissue-specific Transcription Enhancer Element Is Located in the Major Intron of a Rearranged Immunoglobulin Heavy Chain Gene," Cell 33:717-728, Cell Press, Cambridge, MA (1983).
J	AS	15	Gillies, S.D. and J.S. Wesolowski, "Antigen binding and biological activities of engineered mutant chimeric antibodies with human tumor specificities," Hum. Antibod. Hybridomas 1:47-54, Butterworth Heinemann Publishers, Stoneham, MA (January 1990).
DB	AT	15	Gray, G.L. et al., "Periplasmic production of correctly processed human growth hormone in Escherichia coli: natural and bacterial signal sequences are interchangeable," Gene 39:247-254, Elsevier Science Publishers B.V., Amsterdam, Netherlands (January 1985).

EXAMINER <i>Samuel B. B. B.</i>	DATE CONSIDERED 11/15/04
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DB	AR	16	Hendershot, L. et al., "The role of immunoglobulin heavy chain binding protein in immunoglobulin transport," <i>Immunol. Today</i> 8:111-114, Elsevier Science Publishers, Barking, England (August 1987).
↓	AS	16	Hieter, P.A. et al., "Cloned Human and Mouse Kappa Immunoglobulin Constant and J Region Genes Conserve Homology in Functional Segments," <i>Cell</i> 22:197-207, Cell Press, Cambridge, MA (1980).
DB	AT	16	Hieter, P.A. et al., "Evolution of Human Immunoglobulin K J Region Genes," <i>J. Biol. Chem.</i> 257(3):1516-1522, <i>American Society for Biochemistry and Molecular Biology, Inc.</i> , Baltimore, MD (1982).

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Parul Blichner

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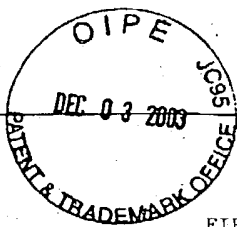
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	17	Holland, I.B., et al., "Secretion of Proteins From Bacteria," <i>Bio/Technol.</i> 4:427-431, Nature Publishing Co., New York (May 1986).
J	AS	17	Holland, I.B., "Secretion of Escherichia coli haemolysis," <i>Biochem. Soc. Trans.</i> 17(2):323-325, Portland Press On The Behalf Of The Biochemical Society, London, England (April 1989).
DB	AT	17	Horwitz, A.H. et al., "Secretion of functional antibody and Fab fragment from yeast cells," <i>Proc. Natl. Acad. Sci. USA</i> 85:8678-8682, National Academy of Sciences of the USA, Washington, D.C. (November 1988).

EXAMINER <i>David Blument</i>	DATE CONSIDERED 11/15/04
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	18	Hsiung, H.M. et al., "High-Level Expression, Efficient Secretion And Folding Of Human Growth Hormone In Escherichia coli," Bio/Technol. 4:991-995, Nature Publishing Co., New York (November 1986).
↓	AS	18	Humphreys, D.P. et al., "Formation of dimeric Fabs in Escherichia coli: effect of hinge size and isotype, presence of interchain disulphide bond, Fab' expression levels, tail piece sequences and growth conditions," J. Immunol. Methods 209:192-202, North-Holland Pub. Co., Amsterdam, Netherlands (December 1997).
DB	AT	18	Huse, W.D. et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," Science 246:1275-1281, American Association for the Advancement of Science, Washington, D.C. (December 1989).

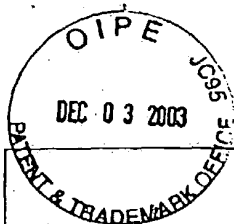
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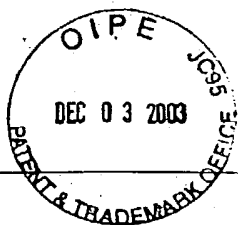
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	19	Itakura, K. et al., "Synthesis And Use Of Synthetic Oligonucleotides," Ann. Rev. Biochem. 53:323-356, Annual Reviews, Inc., Palo Alto, CA (January 1984).
↓	AS	19	Johnston, S. et al., "High-level expression of M13 gene II protein from an inducible polycistronic messenger RNA," Gene 34:137-145, Elsevier Science Publishers B.V., Amsterdam, Netherlands (January 1985).
↓ DB	AT	19	Jones, P.T. et al., "Replacing the complementarity-determining regions in a human antibody with those from a mouse," Nature 321:522-525, Macmillan Publishers Ltd., London, England (May 1986).

EXAMINER <i>Paul Blahut</i>	DATE CONSIDERED 11/15/04
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	20	Kabat, E.A. et al., "Sequences Of Proteins Of Immunological Interest," U.S. Department of Health, Introduction, index, pp. 275-276, National Institute of Health, Bethesda, MD (1983).
J	AS	20	Kato, C. et al., "Construction of an excretion vector and extracellular production of human growth hormone from Escherichia coli," Gene 54:197-202, Elsevier Science Publishers B.A., Amsterdam, Netherlands (July 1987).
DB	AT	20	Keen, N.T. and S. Tamaki, "Structure of Two Pectate Lyase Genes from Erwinia chrysanthemi EC16 and their High-level Expression in Escherichia coli," J. Bacteriol. 168(2):595-606, American Society for Microbiology, Baltimore, MD (November 1986).

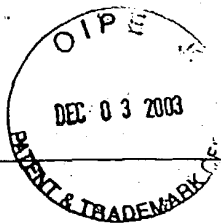
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	21	Kenten, J. et al., "Properties of a human immunoglobulin ϵ -chain fragment synthesized in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 81:2955-2959, National Academy of Sciences of the USA, Washington, D.C. (May 1984).
↓	AS	21	King, D.J. et al., "Expression, purification and characterization of a mouse-human chimeric antibody and chimeric Fab' fragment," <i>Biochem. J.</i> 281:317-323, London Portland Press On Behalf Of The Biochemical Society, London, England (January 1992).
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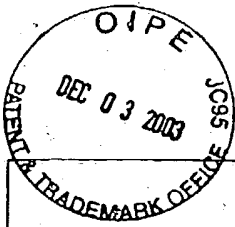
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	22	Kniskern, P.J. et al., "Unusually high-level expression of a foreign gene (hepatitis B virus core antigen) in <i>Saccharomyces cerevisiae</i> ," <i>Gene</i> 46:135-141, Elsevier Science Publishers B.V., Amsterdam, Netherlands (December 1986).
↓	AS	22	Koshland, D. and D. Botstein, "Secretion of Beta-Lactamase Requires the Carboxy End of the Protein," <i>Cell</i> 20:749-760, Cell Press, Cambridge, MA (1980).
DB	AT	22	Kramer, W. et al., "The gapped duplex DNA approach to oligonucleotide-directed mutation construction," <i>Nucl. Acids Res.</i> 12(24):9441-9456, Oxford University Press, Oxford, England (December 1984).

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DB	AR	23	Kurokawa, T. et al., "Expression of human immunoglobulin E ϵ chain cDNA in E. coli," Nucl. Acids Res. 11(10):3077-3085, Oxford university Press, Oxford, England (1983).
I	AS	23	LaVallie, E.R. et al., "A Thioredoxin Gene Fusion Expression System That Circumvents Inclusion Body Formation in the E. coli Cytoplasm," Bio/Technol. 11:187-193, Nature Publishing Co., New York (February 1993).
DB	AT	23	Lei, S.-P. et al., "Cloning of the pectate lyase genes from Erwinia carotovora and their expression in Escherichia coli," Gene 35:63-70, Elsevier Science Publishers B.V., Amsterdam, Netherlands (January 1985).

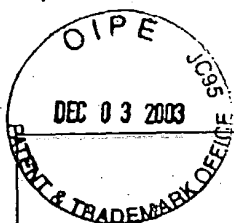
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DB	AR	24	Lei, S.-P. et al., "Characterization of the <i>Erwinia carotovora</i> pelB Gene and Its Product Pectate Lyase," <i>J. Bacteriol.</i> 169(9):4379-4383, American Society for Microbiology, Baltimore, MD (September 1987).
↓	AS	24	Lei, S.-P. et al., "Characterization of the <i>Erwinia carotovora</i> peh gene and its product polygalacturonase," <i>Gene</i> 117:119-124. Elsevier Science Publishers B.V., Amsterdam, Netherlands (August 1992).
↓ DB	AT	24	Li, P. et al., "Alteration of the amino terminus of the mature sequence of a periplasmic protein can severely affect protein export in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 85(20):7685-7689, National Academy of Sciences of the USA, Washington, D.C. (October 1988).

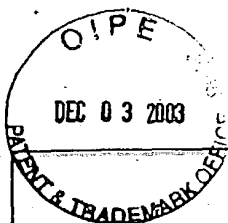
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Samuel Blechman

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	25	Liu, F.-T. et al., "Expression of biologically active fragment of human IgE ϵ chain in Escherichia coli," <i>Proc. Natl. Acad. Sci. USA</i> 81:5369-5375, National Academy of Sciences of the USA, Washington, D.C. (September 1984).
J	AS	25	Liu, A.Y. et al., "Chimeric mouse-human IgG1 antibody that can mediate lysis of cancer cells," <i>Proc. Natl. Acad. Sci. USA</i> 84:3439-3443, National Academy of Sciences of the USA, Washington, D.C. (May 1987).
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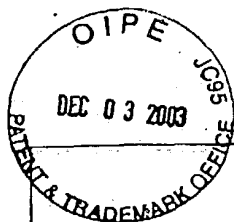
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Samuel Blumenthal

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11/15/04

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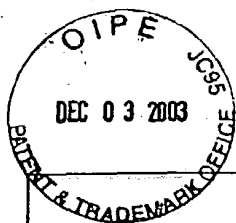
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DB	AR	26	Liu, A.Y. et al., "Production Of A Mouse-Human Chimeric Monoclonal Antibody To CD20 With Potent Fc-Dependent Biologic Activity," <i>J. Immunol.</i> 139:3521-3526, American Association of Immunologists, Baltimore, MD (November 1987).
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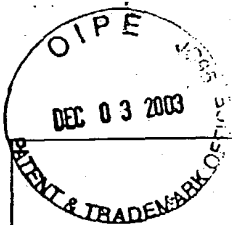
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DB	AR	28	Maniatis, T. et al., "Vectors That Express Cloned DNA in <i>Escherichia coli</i> ," Ch. 12, in: <i>Molecular Cloning: A Laboratory Manual</i> , Maniatis, T. et al., eds, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, pp. 403-433 (1982).
I	AS	28	Marks, J.D. et al., "By-passing Immunization: Human Antibodies from V-gene Libraries Displayed on Phage," <i>J. Mol. Biol.</i> 222:581-597, Academic Press, Inc., New York, NY (December 1991).
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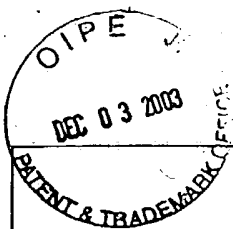
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DB	AR	29	Max, E.E. et al., "Sequence of five potential recombination sites encoded close to an immunoglobulin κ constant region gene," <i>Proc. Natl. Acad. Sci. USA</i> 76(7):3450-3454, National Academy of Sciences of the USA, Washington, D.C. (1979).
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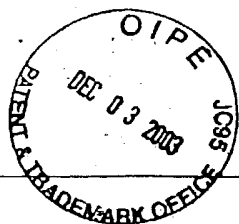
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DB	AR	30	Messing, J. et al., "A system for shotgun DNA sequencing," Nucl. Acids Res. 9(2):309-321, Oxford University Press, Oxford, England (1981).
↓	AS	30	Miller, J. et al., "Structural alterations in J regions of mouse immunoglobulin λ genes are associated with differential gene expression," Nature 295:428-430, Macmillan Publishers Ltd., London, England (1982).
DB	AT	30	Morrison, S.L. et al., "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains," Proc. Natl. Acad. Sci. USA 81:6851-6855, National Academy of Sciences of the USA, Washington, D.C. (November 1984).

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Paul Blehul

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DB	AR	31	Morrison, S.L., "Transfectomas Provide Novel Chimeric Antibodies," Science 229:1202-1207, American Association for the Advancement of Science, Washington, D.C. (September 1985).
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DB	AT	31	Morrison, S.L., "In Vitro Antibodies: Strategies for Production and Application," Ann. Rev. Immunol. 10:239-265, Annual Reviews, Inc., Palo Alto, CA (April 1992).

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Paul Blahut

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	32	Mullinax, R.L. et al., "Identification of human antibody fragment clones specific for tetanus toxoid in a bacteriophage λ immunoexpression library," Proc. Natl. Acad. Sci. USA 87:8095-8099, National Academy of Sciences of the USA, Washington, D.C. (October 1990).
	AS	32	Munro, A., "Uses of chimaeric antibodies," Nature 312:597, Macmillan Publishers Ltd., London, England (December 1984).
	AT	32	Nagahari, K. et al., "Secretion into the culture medium of a foreign gene product from Escherichia coli: use of the ompF Gene for Secretion of Human β -endorphin," EMBO J. 4:3589-3592, IRL Press Limited, Oxford, England (December 1985).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	33	Neuberger, M.S. et al., "Recombinant antibodies possessing novel effector functions," Nature 312:604-408, Macmillan Publishers Ltd., London, England (December 1984).
	AS	33	Neuberger, M.S. et al., "A hapten-specific chimeric IgE antibody with human physiological effector function," Nature 314:268-270, Macmillan Publishers Ltd., London, England (March 1985).
DB	AT	33	Nikaido, N. et al., "Cloning of a Pectate Lyase Gene from Erwinia cartovora and its Expression in Escherichia coli," J. Gen. Appl. Microbiol. 31(3):293-296, Microbiology Research Foundation, Tokyo, Japan (June 1985).

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David Bluhm

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	AR	34	Nikaido, N. et al., "DNA Sequence of the promoter and NH ₂ -Terminal Regions of the Pectate Lyase Gene from <i>Erwinia carotovora</i> ," <i>J. Gen. Appl. Microbiol.</i> 31(6):573-576, Microbiology Research Foundation, Tokyo, Japan (December 1985).
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DB	AR	35	Ochi, A. et al., "Functional immunoglobulin M production after transfection of cloned immunoglobulin heavy and light chain genes into lymphoid cells," Proc. Natl. Acad. Sci. USA 80:6351-6355, National Academy of Sciences of the USA, Washington, D.C. (1983).
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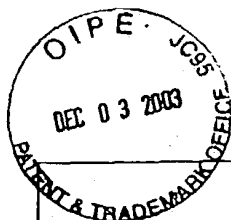
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David B. Kline

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DB ↓ DB	AR	36	Oka, T. et al., "Synthesis and secretion of human epidermal growth factor by Escherichia coli," Proc. Natl. Acad. Sci. 82:7212-7216, National Academy of Sciences of the USA, Washington, D.C. (November 1985).
	AS	36	Orlandi, R. et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," Proc. Natl. Acad. Sci. USA 86(10):3833-3837, National Academy of Sciences of the USA, Washington, D.C. (May 1989).
	AT	36	Pack, P. and A. Plückthun, "Miniantibodies: Use of Amphipathic Helices To Produce Functional, Flexibly Linked Dimeric F _v Fragments with High Avidity in Escherichia coli," Biochem. 31(6):1579-1584, American Chemical Society, Washington, D.C. (February 1992).

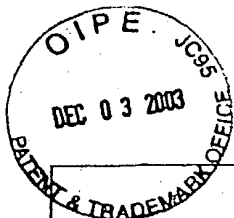
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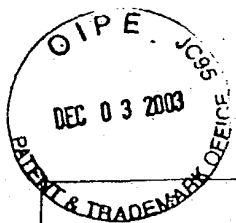
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	AS	38	Plückthun, A., "Antibody Engineering: Advances From The Use Of Escherichia coli Expression Systems," Bio/Technol. 9:545-551, Nature Publishing Co., New York (June 1991).
	AT	38	Plückthun, A. et al., "Engineering of Antibodies with a Known Three-dimensional Structure," Cold Spring Harbor Symp. Quant. Biol. LII:105-112, Abstracts and papers presented at the LII Cold Spring Harbor Symposium on Quantitative Biology, May 27-June 3, 1987, Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, (1987).

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	APPLICANT ROBINSON et al.	
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U.S. PATENT DOCUMENTS							
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	39	Proudfoot, K.A. et al., "Purification of Recombinant Chimeric B72.3 Fab' and F(ab), Using Streptococcal Protein G," <i>Protein Expr. Purif.</i> 3:368-373, Academic Press, Duluth, MN (October 1992).
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DB	AT	39	Pugsley, A., "Early stages in the secretory pathway," Ch. III, in: <i>Protein Targeting</i> , Pugsley, A. ed., New York: Academic Press, Inc. pp.45-111 and 241-267 (June 1989).

EXAMINER <i>Paul Blohel</i>	DATE CONSIDERED <i>11/15/04</i>
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	40	Queen, C. and D. Baltimore, "Immunoglobulin Gene Transcription Is Activated by Downstream Sequence Elements," Cell 33(3):741-748, Cell Press, Cambridge, MA (1983).
↓	AS	40	Ravetch, J.V. et al., "Structure of the Human Immunoglobulin μ Locus: Characterization of Embryonic and Rearranged J and D Genes," Cell 27:583-591, Cell Press, Cambridge, MA (1981).
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EXAMINER <i>Carol Blumel</i>	DATE CONSIDERED <i>11/15/04</i>
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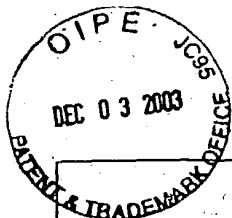
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	41	Rodrigues, M.L. et al., "Engineering Fab' Fragments for Efficient F(ab) ₂ Formation in <i>Escherichia coli</i> and for Improved In Vivo Stability," <i>J. Immunol.</i> 151(12):6954-6961, American Association of Immunologists, Baltimore, MD (December 1993).
J	AS	41	Rosenwasser, T.A. et al., "Compartmentalization of Mammalian Proteins Produced in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 265(22):13066-13073, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (August 1990).
DB	AT	41	Sahagan, B.G. et al., "A Genetically Engineered Murine/Human Chimeric Antibody Retains Specificity For Human Tumor-Associated Antigen," <i>J. Immunol.</i> 137(3):1066-1074, American Association of Immunologists, Baltimore, MD (August 1986).

EXAMINER <i>Samuel Blumenthal</i>	DATE CONSIDERED <i>11/15/04</i>
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DB	AR	42	Sakano, H. et al., "Sequences at the somatic recombination sites of immunoglobulin light-chain genes," <i>Nature</i> 280:288-294, Macmillan Publishers Ltd., London, England (1979).
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	AP						Yes No

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DB	AR	43	Schoner, B.E. et al., "Translation of a synthetic two-cistron mRNA in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82(22):8506-8510, National Academy of Sciences of the USA, Washington, D.C. (November 1986).
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DB	AT	43	Sharon, J. et al., "Expression of a $V_H C_K$ chimeric protein in mouse myeloma cells," <i>Nature</i> 309:364-367, Macmillan Publishers Ltd., London, England (May 1984).

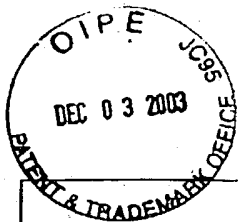
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Paul Blum

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	44	Sharon, J. et al., "Expression of a V _H C _K chimeric protein in mouse myeloma cells," Chem. Abst. 101(7):147 Abstr. 49464x, Chemical Abstracts Services, Columbus, OH (August 1984).
I	AS	44	Shiroza, T. et al., "Synthesis and secretion of biologically active mouse interferon- β using <i>Bacillus subtilis</i> α -amylase secretion vector," Gene 34:1-8, Elsevier Science Publishers B.V., Amsterdam, Netherlands (January 1985).
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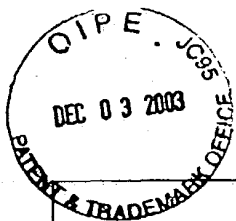
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DB	AR	45	Skerra, A. and A. Plückthun, "Assembly of a Functional Immunoglobulin F ₁ Fragment in <i>Escherichia coli</i> ," Science 240:1038-1041, American Association for the Advancement of Science, Washington, D.C. (May 1988).
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DB	AT	45	Stader, J.A. and T.J. Silhavy, "Engineering <i>Escherichia coli</i> to Secrete Heterologous Gene Products," Meth. Enzymol. 185:166-187, Academic Press Inc., New York, NY (May 1990).

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	AP						Yes No

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DB	AR	46	Studnicka, G.M. et al., "Human-engineered monoclonal antibodies retain full specific binding activity by preserving non-CDR complementarity-modulating residues," <i>Prot. Engin.</i> 7(6):805-814, Oxford University Press, Oxford, England (June 1994).
↓	AS	46	Sun, L.K. et al., "Chimeric Antibodies with 17-1A-Derived Variable and Human Constant Regions," <i>Hybridoma</i> 5(Suppl. 1):S17-S20, Mary Ann Liebert, Inc., Publishers, New York, NY (February 1986).
DB	AT	46	Sun, L.K. et al., "Chimeric antibody with human constant regions and mouse variable regions directed against carcinoma-associated antigen 17A-1A," <i>Proc. Natl. Acad. Sci. USA</i> 84:214-218, National Academy of Sciences of the USA, Washington, D.C. (January 1987).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	47	Takahara, M. et al., "Secretion Of Human Superoxide Dismutase in <i>Escherichia coli</i> ," <i>Bio/Technol.</i> 6:195-198, Nature Publishing Co., New York (February 1988).
↓	AS	47	Takahara, M. et al., "Structure of Human Immunoglobulin Gamma Genes: Implications for Evolution of a Gene Family," <i>Cell</i> 29:671-679, Cell Press, Cambridge, MA (1982).
↓ DB	AT	47	Takahara, M. et al., "A DNA sequence for gene expression and protein secretion, and its cloning from pectic acid lyase operon of <i>Erwinia</i> ," <i>Chem. Abstr.</i> 110:187 Abstr. No. 52329y, Chemical Abstracts Service, Columbus, OH (August 1989).

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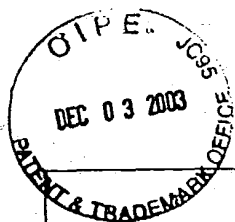
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	AM						Yes No
	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	48	Takeda, S. et al., "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences," Nature 314:452-454, Macmillan Publishers Ltd., London, England (April 1985)
↓	AS	48	Tan, L.K. et al., "A Human-Mouse Chimeric Immunoglobulin Gene With A Human Variable Region Is Expressed In Mouse Myeloma Cells," J. Immunol. 135(5):3564-3567, American Association of Immunologists, Baltimore, MD (November 1985).
↓ DB	AT	48	Tsujimoto, Y. and C.M. Croce, "Molecular cloning of a human immunoglobulin λ chain variable sequence," Nucl. Acids Res. 12(22):8407-8414, Oxford University Press, Oxford, England (November 1984).

EXAMINER <i>David Blahut</i>	DATE CONSIDERED 11/15/04
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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DB	AR	49	Van Brunt, J., "There's Nothing (Quite) Like the Real Thing," <i>Bio/Technol.</i> 4:835 and 839, Nature Publishing Co., New York (October 1986).
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DB	AR	50	Ward, E.S., "Expression and Purification of Antibody Fragments Using <i>Escherichia coli</i> as a Host," Ch. 6, in: <i>Antibody engineering - A Practical Guide</i> , Borrebaeck, C.A.K., ed., New York: W.H. Freeman and Co. pp.121-137 (July 1991).
↓	AS	50	Ward, V.K. et al., "Cloning, sequencing and expression of the Fab fragment of a monoclonal antibody to the herbicide atrazine," <i>Prot. Engin.</i> 6(8):981-988, Oxford University Press, Oxford, England (November 1993).
↓ DB	AT	50	Watson, M.E.E., "Compilation of published signal sequences," <i>Nucl. Acids Res.</i> 12(13):5145-5164, Oxford University Press, Oxford, England (July 1984).

EXAMINER

Ronald Bluhm

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DB	AR	51	Weidle, U.H. et al., "Reconstitution of functionally active antibody directed against creatine kinase from separately expressed heavy and light chains in non-lymphoid cells," <i>Gene</i> 51:21-29, Elsevier Science Publishers B.V., Amsterdam, Netherlands (March 1987).
↓	AS	51	Wetzel, R., "Active immunoglobulin fragments synthesized in <i>E. coli</i> - from Fab to Scantibodies," <i>Prot. Engin.</i> 2(3):169-170, Oxford University Publishers, Oxford, England (September 1988).
↓ DB	AT	51	Williams, G.T. and M.S. Neuberger, "Production of antibody-tagged enzymes by myeloma cells: application to DNA polymerase I Klenow fragment," <i>Gene</i> 43:319-324, Elsevier Science Publishers B.V., Amsterdam, Netherlands (August 1986).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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DB	AR	52	Wood, D.L. and C. Coleclough, "Different joining region J elements of the murine κ immunoglobulin light chain locus are used at markedly different frequencies," <i>Proc. Natl. Acad. Sci. USA</i> 81(15):4756-4760, National Academy of Sciences of the USA, Washington, D.C. (August 1984).
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DB	AT	52	Zapata, G. et al., "Engineering linear F(ab'), fragments for efficient production in <i>Escherichia coli</i> and enhanced antiproliferative activity," <i>Prot. Engin.</i> 8(10):1057-1062, Oxford University Press, Oxford, England (October 1995).

EXAMINER

Paul Bluhm

DATE CONSIDERED

11/15/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



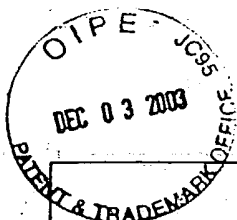
FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0610.005000I	APPLICATION NO. 10/040,945
	APPLICANT ROBINSON et al.	
	FILING DATE January 9, 2002	GROUP 1642

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
DB	AR	53	Zemel-Dreassen, O. and A. Zamir, "Secretion and processing of an immunoglobulin light chain in <i>Escherichia coli</i> ," <i>Gene</i> 27:315-322, Elsevier Science Publishers B.V., Amsterdam, Netherlands (March 1984).				
↓	AS	53	Appendix A to Patentee's [Celltech Therapeutics Limited] Letter of 8 th of May 1996, filed in reply to oppositions against European Patent No. 0 120 694.				
↓ DB	AT	53	Dialog World Patent Index File 351 English Language Abstract for JP 60-155132 (Document No AL3).				

EXAMINER <i>Samuel Bluhm</i>	DATE CONSIDERED 11/15/04
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FORM PTO-1449

**FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.
0610.005000I

APPLICATION NO.
10/040,945

APPLICANT
ROBINSON et al.

FILING DATE
January 9, 2002

GROUP
1642

U.S. PATENT DOCUMENTS

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

DB	AR	54	Dialog World Patent Index File 351 English Language Abstract for JP 61-47500 (Document No AN3).
↓	AS	54	Dialog World Patent Index File 351 English Language Abstract for JP 62-502586 (Document No AN5).
DB	AT	54	Dialog World Patent Index File 351 English Language Abstract for JP 63-068087 (Document No AO5).

EXAMINER *Paul Blum*

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0610.005000IAPPLICATION NO.
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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DB	AR	55	Dialog World Patent Index File 351 English Language Abstract for EP 0 324 162 (Document No A06).
DB	AS	55	Co-pending U.S. Application No. 09/722,425, filed, November 28, 2000.
	AT		

EXAMINER

David Bluh

DATE CONSIDERED

11/15/04

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